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CONFIGNIA

UNITED STATES GOVERNMENT

Memorandum

то :	Director of Communications DATE:	04 November 1976
25X1 _{ROM} :	Chief, Communications Engineering	
subject:	: Monthly Narrative Summary ReportOctober 1976	
	1. On 26-27 October 1976, an Agency Data Symposium was conducted under ORD sponsorship. Processing and Office of Communications personn representatives from industry and a speaker propresented a wide variety of papers. The symposto provide an opportunity for technical planning design and software personnel to review require technology, exchange viewpoints and ideas, was Engineers presented papers and participated in material covering SKYLINK, SKYMUX, CDS, ITS-W as	el along with vided by DCA ium objective, g, engineering, ments, new achieved. presenting
25X1 25X1	2. The satellite remains out with for recovery. All Atlantic stations continue to satellite without problems.	l little hope to access the
	3. The procurement specification for the satellite field terminal was completed. A traitis being forwarded to OL.	new SC-3 small nsmittal letter
	4. The final SKYLINK terminal procurement effort was accepted for delivery. will remain at the contractor's plant for use	of the SC-1 25X This terminal in developing
25X1	a wideband conversion kit to provide full 500 h	with the con-
25X1	5. The installation of an SC-1A terminal at A site survey for a future install was completed.	was started ation at 25X
25X1	6. The shielded enclosure installation i building at was completed on 24 0	n the new 25X ctober.



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25X1 25X1 25X1 25X1	7. The first six motor generators, built to a jointly approved specification were delivered. Three units were funded by and delivered for eventual installation in and the other two are being shipped to for installation in two countries.	25X′ 25X′ 25X′
	8. The FY-77 worldwide equipment program reviews have been completed. The approved programs with associated narratives are being prepared for transmission to the respective Areas.	
	9. After many delays, confusion and procrastination, the roof level generator room was approved and funded for The main fuel tank for the generator will be housed in the basement; and the fuel will be fed to the day tank on the roof by means of a high lift fuel transfer system. The roof of the generator room also includes the mounting base for the later installation of the SC-1A antenna.	25X′
	10. TEMPEST problems are still being encountered with the M-40 teletype machine. COMSEC acceptance is pending modification development by Teletype Corp.	
25X1	11. Testing of the SK/SE-113 SATCAL is nearing completion. The unit has passed all performance tests with only minor difficulties. The system is currently being installed at for testing as a part of the total SKYMUX equipment package.	25 X1
25X1 25X1 25X1 25X1 25X1	12. On 27 and 28 October, the final test phase of the Black Patch was completed. During this 48-hour period, a SKYLINK failure was simulated with SKYLINK stations working through the via the DP-1 at 4800 bps. The continues to function properly and is fully operational.	25X 1
25X1	13. The system engineer, has returned from The T-96 multiplexer system is installed and under test by	25X1
25X1 25X1	when are confident equal or superior performance over the T-20 system has been achieved.	

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14. SKYMUX testing on the
15. A CDS endurance test was started on 10 October to exercise the system under full traffic loading conditions. Shortly after the start of the test, a number of major software problems were discovered causing postponement of further testing. A minimum schedule impact of two weeks is anticipated as a result. A link between MAX-III and CDS was installed and successfully tested.
16. On 14 and 15 October, a visit was made to Collins Radio, Dallas, for discussions on the design and implementation of a working model front-end for a MAX system.
17. The AFT system software design review was held at DBA, Melbourne, Florida, 5 and 7 October. While DBA displayed a good understanding of the software effort required, concern was expressed regarding the limited number of programmers currently assigned to the project. On 13 October, DBA advised us of the resignation of their AFT Program Manager, effective 12 November. DBA designated their senior AFT system programmer as the new Program Manager. DBA subsequently assigned two more programmers to the project team.
18. Delivery of the Field Station Unattended Operation (FSUO) prototype system has been delayed until 4 November in order to allow the vendor time to complete his operating and technical documentation packages.
Remote Receiver Site study initiated during the reporting period has progressed to the point where only two alternatives are being seriously considered. These are the utilization of the System or the launching of a dedicated satellite system. The more promising proposal appears to be the use of the system and "modified" SKYLINK terminals and OD&E are preparing channel estimates (voice, TTY & control) for remote-controlled monitor stations. This information will be forwarded to OC-E/SED/FAB for a satellite power impact review.

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25X1 25X1 25X1 25X1 SUBJECT: Monthly Narrative Summary Report--October 1976

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20. Harris Corporation delivered the Laserfax test bed equipment to Headquarters on 12 October. The receiver was installed at Headquarters on 13 October and the transmitter installed at ______ on 18 October. Initial end-to-end tests were conducted on 29 October after problems in getting the T-1 line operational were resolved. The technical evaluation of the Phase II-B proposal from Harris was completed on 14 October.

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21. The installation of the _______ communication system began on 9 October. To date, all distribution, station and data cables have been pulled-in and are being terminated at IDF's. Cabinets, underfloor ducting and power cables are being installed in the communications equipment room. Completion of the communications system is presently contingent upon the pending delivery of equipment. An interim secure voice and data capability was provided for the components of the OS which moved into the second floor office space at ______ during the week of 16-23 October.

- 22. Site installation plans for the basic HATS links were received from Raytheon on 6 October. These plans have been reviewed and will be accepted with only minor changes. Surveys of the Sites selected for the additional links procured under the 30 September contract, was performed by Raytheon representatives on 1 October 1976.
- 23. Preliminary preparations for the Hewlett-Packard data terminal system continue. Mr. have participated in preparing the RFP. Arrangements have been made to train two staff programmers designated for the project, in Hewlett-Packard assembly language and operating system characteristics.
- 24. Preparation of logic changes to accommodate the forth-coming revision of ACP-127 format line four is nearly complete. Design of ARS software modifications has been completed and the logic tested at WASH-ARS. Modifications to the MAX program are nearly complete. Testing will be accomplished at WASH-MAX early in November.

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COMMENTAL

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- Communi-The instrumentation of the cations Equipment Room (CER) on a pilot model basis was approved on 29 September. The Project Report and Action Plan have been submitted and funds in the amount of \$30,000 have been identified. The major system problems identified are the high error rate and the number of customer problems reported for which no troubles were found (NTF). The equipment problems are being addressed by OC-O/ OC-E will address the support problems and interface with the customer to determine if the NTF problems occur in the customer's equipment or in the data transmission system.
- The evaluation of the operation of Field Station Narrowband Secure Voice systems which was initiated in August, continued during the reporting period. Although no single major fault has been detected, certain areas where improvements are recommended have been identified. The Equipment Section of the Facilities Branch is presently in the process of compiling a detailed report which will include specific recommendations and procedures for maximizing the VADAC III for consistency of performance. The interface between the narrowband and wideband secure voice systems is currently being investigated.
- CED received delivery of the Telcom 3061 System on 29 October 1976. QAB evaluations are scheduled to begin in November.
- Field/Base System was 28. A prototype HF forwarded to OC-O/COD early in October for operational evaluation. CED personnel briefed COD personnel in the use of the equipments and provided technical assistance.
- 29. Production of twenty-five BC-98 Battery Chargers and Transmitters was completed twenty-five RT-519 with these units passing QAB and being placed in
- Efforts toward getting SV/A-8 production started were initiated this month. System parameters were agreed to by COD, an action plan was drawn up, a drafting package is well underway, requisitions for parts have been placed, and a family of have been accessories for identified for inclusion in the program.

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	31. Final assembly and testing of the was completed during October. The system, complete with test equipment and operational crystals, is ready for packing and shipping when approval is received from COD.	25X ⁻
25X1	32. Mr. represented CED at a COD-sponsored briefing of the "Secure Data Communications Terminal" configuration of the RS-531 for members of the on 7 October 1976 at	25X ²
25X1 25X1	the	
	33. The Crystal Laboratory is working on a technique required to process crystals for the SV-8 system. To date, the RX crystals have been successful. However, the TX crystal requires additional research. QAB has provided all the equipment necessary to test SV-8 experimental crystals.	
25X1 25X1	34. Mr. accompanied representatives from SOG, OL and OC-O/COD to the to review stock and OC support facilities.	25X′
25X1	35. TSB/ hosted for OC-E/SED a Timeplex course on the Model MX-113 Multiplexer. The course dates were 18-22 October.	
	36. There were a total of 405 TECHREQ messages processed this month.	
		25X′
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